## PATENT COOPERATION TREATY

**PCT** 

REC'D 1.4 DEC 2005

# INTERNATIONAL PRELIMINARY REPORT ON PATEMBOBILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416						
52131 WO							
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)					
PCT/IB2003/006124	22-12-2003						
International Patent Classification (IPC) o	r national classification and IPC						
See Supplemental Box							
Applicant	, and the second						
Nokia Corporation et	al /						
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of		ing this cover sheet.					
This report is also accompanied by							
a. (sent to the applicant	and to the International Bureau) a	a total of 5 sheets, as follows:					
and/or sheets	containing rectifications authorize	s which have been amended and are the basis of this report and by this Authority (see Rule 70.16 and Section 607 of the					
	e Instructions).	this Authority considers contain an amendment that goes					
		eation as filed, as indicated in item 4 of Box No. I and the					
Supplemental							
b. (sent to the Internation	nal Bureau only) a total of (indica	ate type and number of electronic carrier(s))					
<del></del> ,		nence listing and/or tables related thereto, in electronic					
	ed in the Supplemental Box Relating	ng to Sequence Listing (see Section 802 of the					
Administrative Instru	ctions).						
4. This report contains indications re							
Box No. I Basis of	f the report						
Box No. II Priority							
Box No. III Non-est	ablishment of opinion with regard	to novelty, inventive step and industrial applicability					
Box No. IV Lack of	unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial							
applicability; citations and explanations supporting such statement  Box No. VI Certain documents cited							
<u></u>							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of	Date of completion of this report					
= 3. Sammonon of the delimina	Date of	completion of this report					
10-05-2005	0.4.4	1 2005					
		24-11-2005 Authorized officer					
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Authori	ized officer					
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Form PCT/IPEA/409 (cover sheet) (April 2005)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

	PCT/IB2003/006124					
Supplemental Box						
In case the space in any of the preceding boxes is not sufficient.  Continuation of: Cover sheet						
H04L 1/18 (2006.01) H04B 7/005 (2006.01)						
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#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2003/006124

Box	No. I	Ва	asis of the report					
1.	1. With regard to the language, this report is based on:							
	the international application in the language in which it was filed							
		a translation of the international application into						
		which i	is the language of a translation furnished for the purposes of:					
		$\square$	international search (Rules 12.3(a) and 23.1(b))					
		님	publication of the international application (Rule 12.4(a))					
		Ш	international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	2. With regard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
		the int	ternational application as originally filed/furnished					
	$\boxtimes$	the de	scription:					
		pages						
		pages*						
		pages*						
		the cla						
		pages*	* 31-33 as amended (together with any statement) under Article 19					
		pages*						
		pages*						
	$\boxtimes$	the dra	awings:					
		pages	9					
		pages*						
			ence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
		a sequ	chee fishing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
3.		The an	mendments have resulted in the cancellation of:					
			the description, pages					
			the claims, Nos.					
			the drawings, sheets/figs					
			the sequence listing (specify):					
			any table(s) related to the sequence listing (specify):					
4.			eport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule )).					
			the description, pages					
			the claims, Nos.					
			the drawings, sheets/figs					
			the sequence listing (specify):					
			any table(s) related to the sequence listing (specify):					
*	If item 4 applies, some or all of those sheets may be marked "superseded."							

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2003/006124

Box No. V	Reasoned statement u citations and explanat	ed statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; as and explanations supporting such statement			
1. Statemen	nt				
Nove	elty (N)	Claims Claims	1-16	YES NO	
Inver	ntive step (IS)	Claims Claims	1-16	YES NO	
Indus	strial applicability (IA)	Claims Claims	1-16	YES NO	

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: WO0203600 A1
D2: WO03105394 A1
D3: WO03077464 A1
D4: US6175560 B1
D5: US2003012165 A1
D6: WO0217548 A1

The cited documents represent the general state of the art. The inventions defined in claims 1-16 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method and network for decreasing the transmission delay in a multichannel data transmission of physical layer frames using hybrid automated repeat request signalling. Therefore, the claimed inventions are not obvious to a person skilled in the art.

Accordingly, the inventions defined in claims 1-16 are novel and are considered to involve an inventive step. The inventions are industrially applicable.

#### PATENT COOPERATION TREATY

**20** 0 4 **-**07- 2005

#### From the INTERNATIONAL BUREAU

#### **PCT**

NOTIFICATION CONCERNING AMENDMENTS OF THE CLAIMS

(PCT Rule 62 and Administrative Instructions, Section 417)

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Swedish Patent Office P.O. Box 5055 S-102 42 Stockholm Sweden

Date of mailing (day/month/year)

24 June 2005 (24.06.2005)

in its capacity as International Preliminary Examining Authority

International application No.

PCT/IB2003/006124

International filing date (day/month/year)

22 December 2003 (22.12.2003)

Applicant

NOKIA CORPORATION et al

The International Bureau hereby transmits a copy of the amendments to the claims under Article 19 together with any accompanying statement (Rule 62).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Sonnia GARCIA MELLITI (Fax: 4122 338 7

Facsimile No. (41-22) 338.70.60

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# AMENDED CLAIMS

PCT/IB03/006124

## AMENDED CLAIMS

[received by the International Bureau on 10 November 2004 (10.11.2004); original claims 1-18 replaced by new claims 1-16 (3 pages)]